

# EQUIVDOC INC 'J01168972'

\*\*\*\*\* Item Number 1 of 1 \*\*\*\*\*

DESCRIP :: PATENT  
 TITLE :: Elastic processing agent imparting hydrophilic properties to  
 fibers - c ontains copolymer emulsion obt'd. from  
 organopolysiloxane, (meth) acrylic monomer, hydrophilic  
 monomer, etc.  
 ASSIGNEE :: NISSHIN CHEM IND KK; SHINETSU CHEM IND KK  
 PACODE :: NISV ; SHIE  
 ACCNNO :: 229932  
 DATE :: Jul 04, 1989  
 ABSTRACT :: < BASIC> JP01168972 Fiber-treting agent contains copolymer  
 emulsion asthe main component. The copolymer emulsion is prepd. by  
 emulsion-polymerizing (A) mixt. of 5-95 pts. wt. oil-in-water  
 emulsion of organopolysiloxane of formula (I) and 95-5 pts. wt.  
 (B) monomer mixt. in the presence of a radical polymerization  
 initiator. Mixt. (B) consists of 50-99 wt.% (b1) one or more kind  
 of (meth)acrylic monomer of formula  $CH_2 = CR_5COOR_6$  (II). 0-10 wt.%  
 (b2) one or more polyfunctional monomers 1-20 wt.% (b3) one or  
 more hydrophilic monomers and 0-20 wt.% (b4) monoethylenic unsatd.  
 monomer. in total 100 wt.%. Monomer (b2) is selected from  
 ehtylenic unsatd. amide alkylol or alkoxyalkyl substd. cpd.,  
 oxirane gp.-contg. ethylenic unsatd. monomer, complete ester of  
 polyvalent alcohol with (meth)acrylic acid, dibasic acid  
 diallylester, allyl(meth)acrylate and divinylbenzene. Monomer (b3)  
 is selected from ethylenic unsatd. monomer contg. carboxyl gp.,  
 OH, amide, amino, sulfonic acid, phosphoric acid,  
 polyalkyleneoxide and quat. ammonium salt. In (I), R1, R2 and R3  
 =1-20C monovalent hydrocabron, monovalent halohydrocarbon; Y  
 =radically reactive gp. and/or SH gp.-contg. organic gp.; X =H,  
 monovalent lower alkyl or R1R2R4Si; R4 =as R1 or Y; m =less than  
 10,000. In (II), R5 = H or CH3; R6 = 1-18C alkyl or alkoxy-substd.  
 alkyl. USE/ADVANTAGE - The processing agent is useful for fiber  
 prods. The processing agent imparts cleaning resistance and  
 durable flexibility, and good feeling with good impact resilience.  
 @ (12pp Dwg.No.0/0)@  
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 PNBASIC :: J01168972  
 PRIORNO :: J87328606  
 DATEPR :: Dec 25, 1987  
 EQUIVDOC :: J91043388 J01168972 J87328606 JPAT  
 SUBJECT :: METHACRYLIC  
 SUBJECTP :: Radiation/Radical; Accelerators/Promotors; Si-OR/Si-Alkoxy;  
 Polymerization; Process; Polymerization; Surfactant  
 LANG :: JAPANESE  
 TYPE :: PTNT  
 IPCODE :: C08F-002/30; C08F-220/10; D06M-015/64  
 DPCODE :: A87; F06; A14; A26  
 MANUAL :: A04-F06E2; A06-A00E1; A10-C03B; A12-G; A12-S05S; F01-H06;  
 F03-C05  
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